

CLAMP DEVICE

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Cited documents:

JP5024423Y

JP2015238U

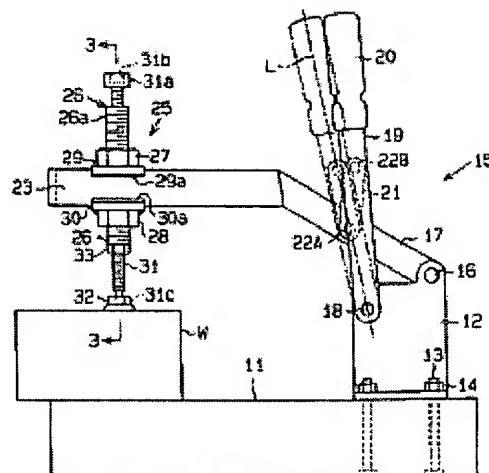
JP3086457U

JP9290338

JP50110191

Abstract of WO2004018154

A clamp device has a clamp arm reciprocably installed on an installation member, pressing force applying means for applying pressing force to the clamp arm, and a clamp bolt for clamping a material to be clamped between the bolt and a support member. A threaded tube having an external thread portion on its outer side and an internal thread portion on its inner side is installed on the clamp arm such that its height position is adjustable using the external thread portion. A clamp bolt is screwed in the internal thread portion of the threaded tube. There is provided an operation portion for performing swing operation of the clamp bolt with the material to be clamped being clamped between the clamp bolt and the support member.



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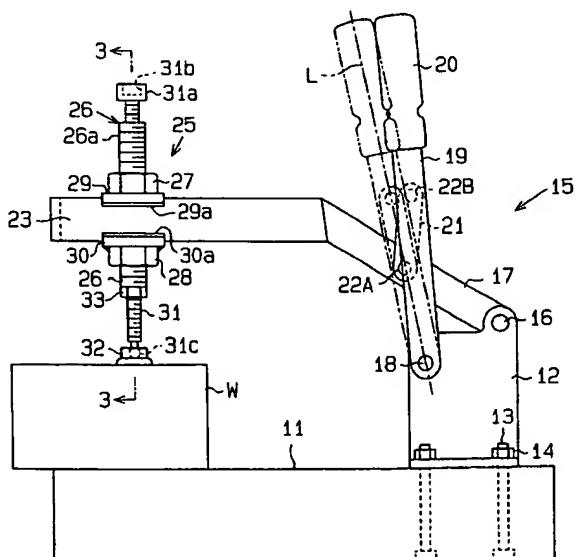
添付公開書類:
— 国際調査報告書
— 請求の範囲の補正の期限前の公開であり、補正書受領の際には再公開される。

- (72)発明者; および
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2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイドスノート」を参照。

(54)Title: CLAMP DEVICE

(54)発明の名称: クランプ装置



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A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B25B1/10, B25B1/14, B23Q3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B25B1/00, B25B5/00, B23Q3/06

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2003
 Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 5-24423 Y2 (Kazuyoshi KATO), 22 June, 1993 (22.06.93), Claims; all drawings (Family: none)	1-11
Y	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 89529/1988 (Laid-open No. 15238/1990) (Fujitsu Ltd.), 30 January, 1990 (30.01.90), Claims; Figs. 1 to 2 (Family: none)	1-11
Y	JP 3086457 U (Fuji Kogyo Co., Ltd.), 21 June, 2002 (21.06.02), Par. No. [0026]; all drawings (Family: none)	4

 Further documents are listed in the continuation of Box C. See patent family annex.

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Date of the actual completion of the international search
10 December, 2003 (10.12.03)Date of mailing of the international search report
24 December, 2003 (24.12.03)Name and mailing address of the ISA/
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International application No.

PCT/JP03/09464

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-290338 A (Makita Corp.), 11 November, 1997 (11.11.97), Par. No. [0017]; Fig. 1 (Family: none)	8
A	JP 50-110191 A (Tsuguo MURAOKA), 29 August, 1975 (29.08.75), Claims; Fig. 1 (Family: none)	1-11